

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior listing of claims in the application.

Listing of Claims:

Claims 1-2 (Canceled)

Claim 3 (Currently Amended) The ~~composition~~method of claim [[2]] 40 wherein the free radical stabilizer is present in amounts of at least 1 part per million parts of polychloroethylene.

Claim 4 (Currently Amended) The ~~composition~~method of claim 3 wherein the free radical stabilizer is a material having the 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy-yl free radical group.

Claim 5 (Currently Amended) The ~~composition~~method of claim 4 wherein the 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy-yl free radical group is the 2,2,6,6-tetramethyl-1-piperidinyloxy-yl free radical group.

Claim 6 (Currently Amended) The ~~composition~~method of claim 3 wherein the stable free radical stabilizer is a material having the 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy-4-yl free radical group.

Claim 7 (Currently Amended) The ~~composition~~method of claim 6 wherein the stable free radical stabilizer is a material having the group 2,2,6,6-tetramethyl-4-hydroxy-1-piperidinyloxy, 2,2,6,6-tetramethyl-4-amino-piperidinyloxy, 2,2,6,6-tetramethyl-4-dimethylamino-piperidinyloxy, 2,2,6,6-tetramethyl-4-ethanoyloxy piperidinyloxy, 2,2,6,6-tetramethyl-4-oxo-1-piperidinyloxy, 2,2,6,6-tetramethyl-4-((methylsulfonyl)oxy)-1-piperidinyloxy, or 2,2,6,6-tetramethyl-1-piperidinyloxy-4-yl benzoate.

Claim 8 (Currently Amended) The ~~composition~~method of claim 6 wherein the stable free radical stabilizer is bis(2,2,6,6-tetramethyl-1-piperidinyloxy-4-yl) ester of saturated dicarboxylic acid.

Claim 9 (Currently Amended) The ~~composition~~method of claim 8 wherein the saturated dicarboxylic acid contains from 2 to 13 carbon atoms.

Claim 10 (Currently Amended) The ~~composition~~method of claim 8 wherein the stable free radical stabilizer is bis(2,2,6,6-tetramethyl-1-piperidinyloxy-4-yl) sebacate.

Claim 11 (Currently Amended) The ~~composition~~method of claim 3 wherein the free radical stabilizer is a material having the 2,2,6,6-tetramethyl-4-hydroxy-1-piperidinyloxy group, which material is present in amounts of from 2 to 15 parts per million parts of polychloroethylene.

Claims 12-13 (Canceled)

Claim 14 (Currently Amended) The composition of claim ~~[[13]]~~ 44 wherein the 2,2,5,5-tetra(lower alkyl) pyrrolidinyloxy group is 2,2,5,5-tetramethyl pyrrolidinyloxy and the free radical stabilizer is present in amounts of at least 1 part per million parts of polychloroethylene.

Claim 15 (Original) The composition of claim 14 wherein the free radical stabilizer is a material having the group 2,2,5,5-tetramethyl-3-amino-pyrrolidinyloxy, 2,2,5,5-tetramethyl-1-oxa-3-azacyclopentyl-3-oxy, or 2,2,5,5-tetramethyl-3-pyrrolinyl-1-oxy-3-carboxylic acid.

Claims 16-37 (Canceled)

Claim 38 (Original) A method for removing stable free radical stabilizer from a liquid composition comprising polychloroethylene and a minor amount of stable free radical stabilizer, comprising contacting said liquid composition with an amount of silica sufficient to adsorb stable free radical stabilizer and provide a polychloroethylene composition substantially free of stable free radical stabilizer.

Claim 39 (Original) The method of claim 38 wherein the polychloroethylene is trichloroethylene or perchloroethylene.

Claim 40 (Original) The method of claim 39 wherein the silica is precipitated silica, silica gel or fumed silica.

Claim 41 (New) A method for removing stable free radical stabilizer from a liquid composition comprising polychloroethylene and less than 50 ppm of stable free radical stabilizer having the 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy-yl free radical group, comprising treating said liquid composition with an amount of precipitated silica sufficient to adsorb stable free radical stabilizer and provide a polychloroethylene composition substantially free of stable free radical stabilizer.

Claim 42 (New) The method of claim 41 wherein the polychloroethylene is trichloroethylene or perchloroethylene, and the 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy-yl free radical group is the 2,2,6,6-tetramethyl-1-piperidinyloxy-yl free radical group.

Claim 43 (New) The method of claim 42 wherein the precipitated silica is used in an amount of at least 0.05 weight percent, based on the liquid polychloroethylene composition treated.

Claim 44 (New) A composition comprising polychloroethylene chosen from trichloroethylene and perchloroethylene and a stabilizing amount of stable free radical stabilizer having the 2,2,5,5-tetra(lower alkyl)pyrrolidinyloxy group.